

# **National Aerospace Laboratories**

## **Comparative Evaluation of Different Resin Batches Used in HANSA-3 (Old- Vs-New Batches)**

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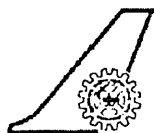
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**Title :** COMPARATIVE EVALUATION OF DIFFERENT RESIN BATCHES USED IN HANSA-3

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**Remarks :**

**Keywords:** Resin, Reinforcement, Test Laminate, Test Specimen, Gel Time Exotherm

**Abstract:** The properties of the resin system used as matrix for composites are important since the mechanical strength and fabrication processes of the components depend on these properties. Hence it was considered essential to monitor the properties of the resins during their storage for a long period of time. A number of resin batches were earlier received in mid 1994 for use in HANSA - 3 component fabrication. Subsequently a new batch of LY 5052 resin and the corresponding HY 5052 hardener were obtained through HAL, as a replacement stock in Feb 96 which had to be used to complete the fabrication of HANSA-3 components after the properties were monitored. As per the HANSA -3 committee advice a comparative evaluation of those two batches (old & new) of resins was made.